

UNIQUE IDENTIFICATION (UID)



Unique Identification (UID) of Items



DoD Challenges¹

- ◆ Almost half of DoD's \$63.3 billion inventory as of September 2001 exceeds war reserve or current operating requirements
- ◆ DoD is unable to maintain adequate accountability over material shipped between contractors and DoD
- ◆ The services all experience operations and maintenance problems because of a lack of key spare parts, specifically aviation spares
- ◆ The services are not adequately monitoring, reporting, or getting reimbursement for defective spare parts received from contractors

¹ GAO-03-98 DoD Challenges



DoD Vision for Item Marking

To implement a policy establishing a strategic imperative for uniquely identifying tangible items relying to the maximum extent practical on international standards and commercial item markings and while not imposing unique government data requirements.

Uniquely identified (UID) tangible items will facilitate item tracking in DoD business systems and provide reliable and accurate data for management, financial, accountability and asset management purposes.



DoD's Approach to UID

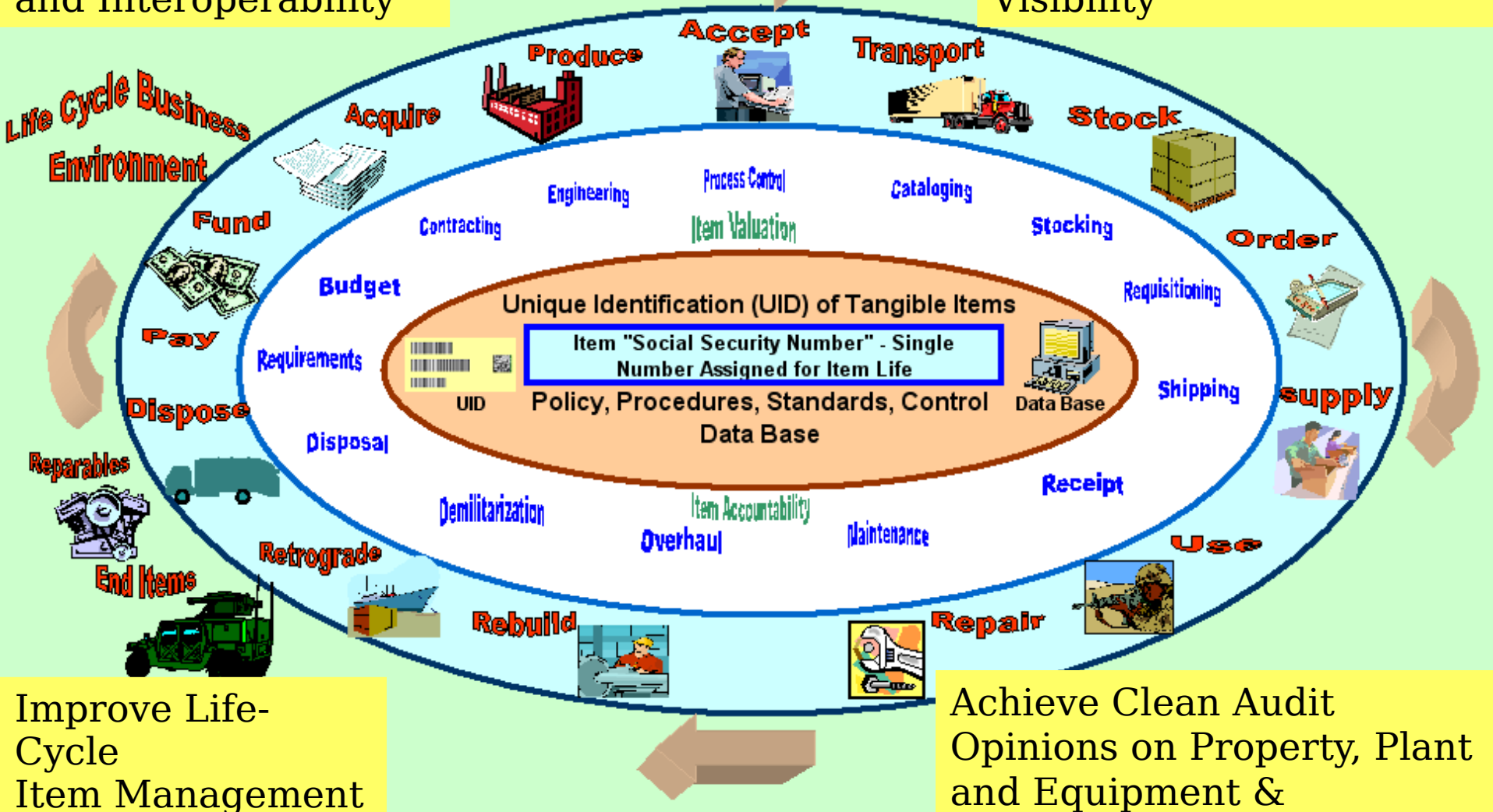
- ◆ The Department of Defense (DoD) established a joint international/industry/government Integrated Product Team (IPT) to achieve the following goals:
 - Identify the UID data standard
 - Develop a feasible and rapid implementation strategy
- ◆ Initial four simultaneous efforts
 - Policy development
 - Standards definition & procedures
 - DFARS case (regulations updates)
 - Implementation planning



UID Role - Business Enterprise Architecture

Improve Data Quality and Interoperability

Enhance Total Asset Visibility





Unique **ID**entification (**UID**) is....

UID is . . .

. . . the set of data for tangible assets that is globally unique and unambiguous, ensures data integrity and data quality throughout life, and supports multi-faceted business applications and

EID	370521		
Original Part Number	1234		
Serial Number	786950		



UID Constructs

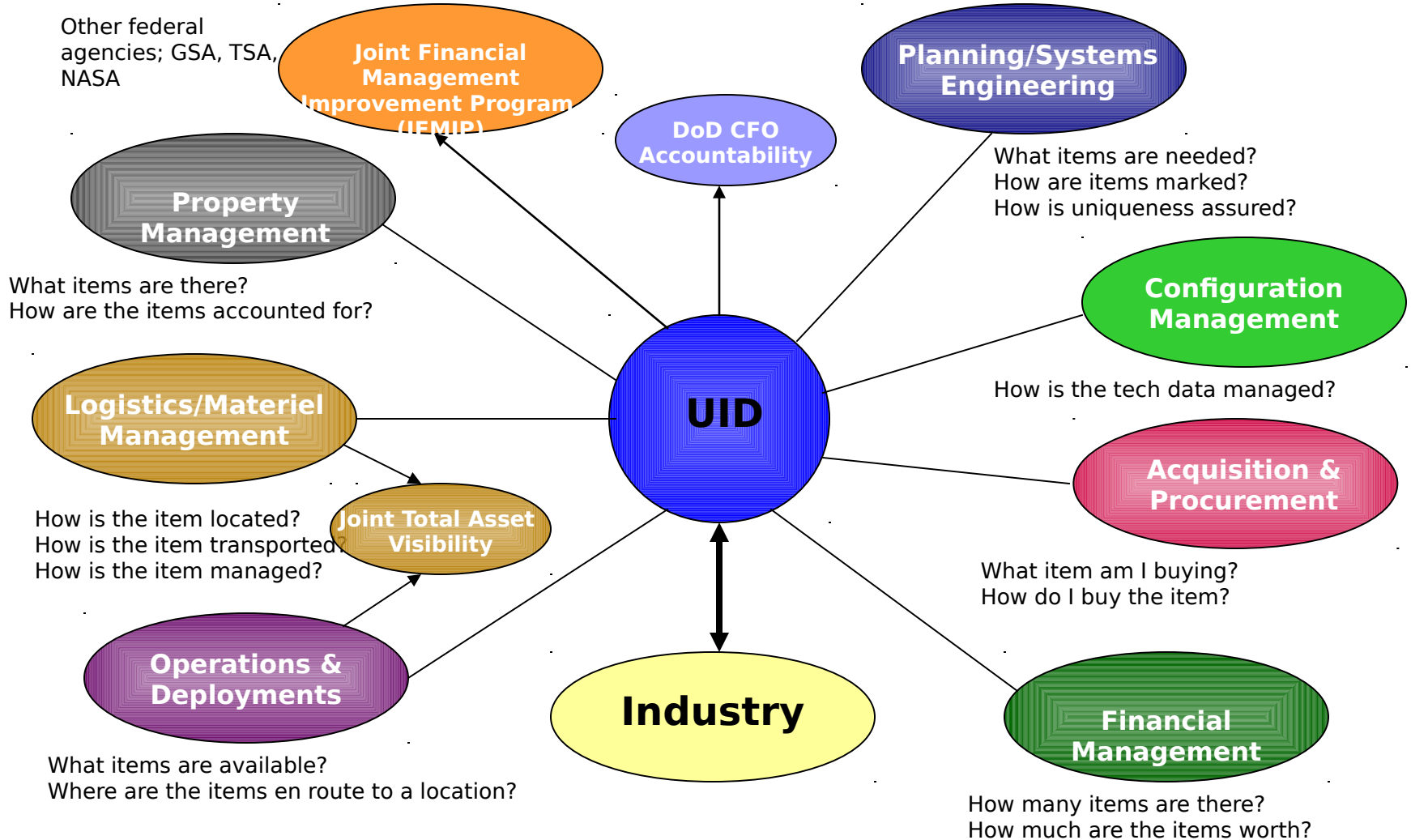
The components that make up the UID are identified in the table below. Each enterprise has two options for creating the UID.

	UID Construct #1	UID Construct #2
Based on current enterprise configurations	If items are serialized within the Enterprise	If items are serialized within Part Number
UID is derived by concatenating the data elements IN ORDER:	Issuing Agency Code* Enterprise ID Serial Number	Issuing Agency Code* Enterprise ID Original Part Number Serial Number
Data Identified on Assets Not Part of the UID (Separate Identifier)	Current Part Number	Current Part Number

*The Issuing Agency Code (IAC) represents the registration authority that issued the enterprise identifier (e.g., Dun and Bradstreet, EAN.UCC). The IAC can be derived from the data qualifier for the enterprise identifier.

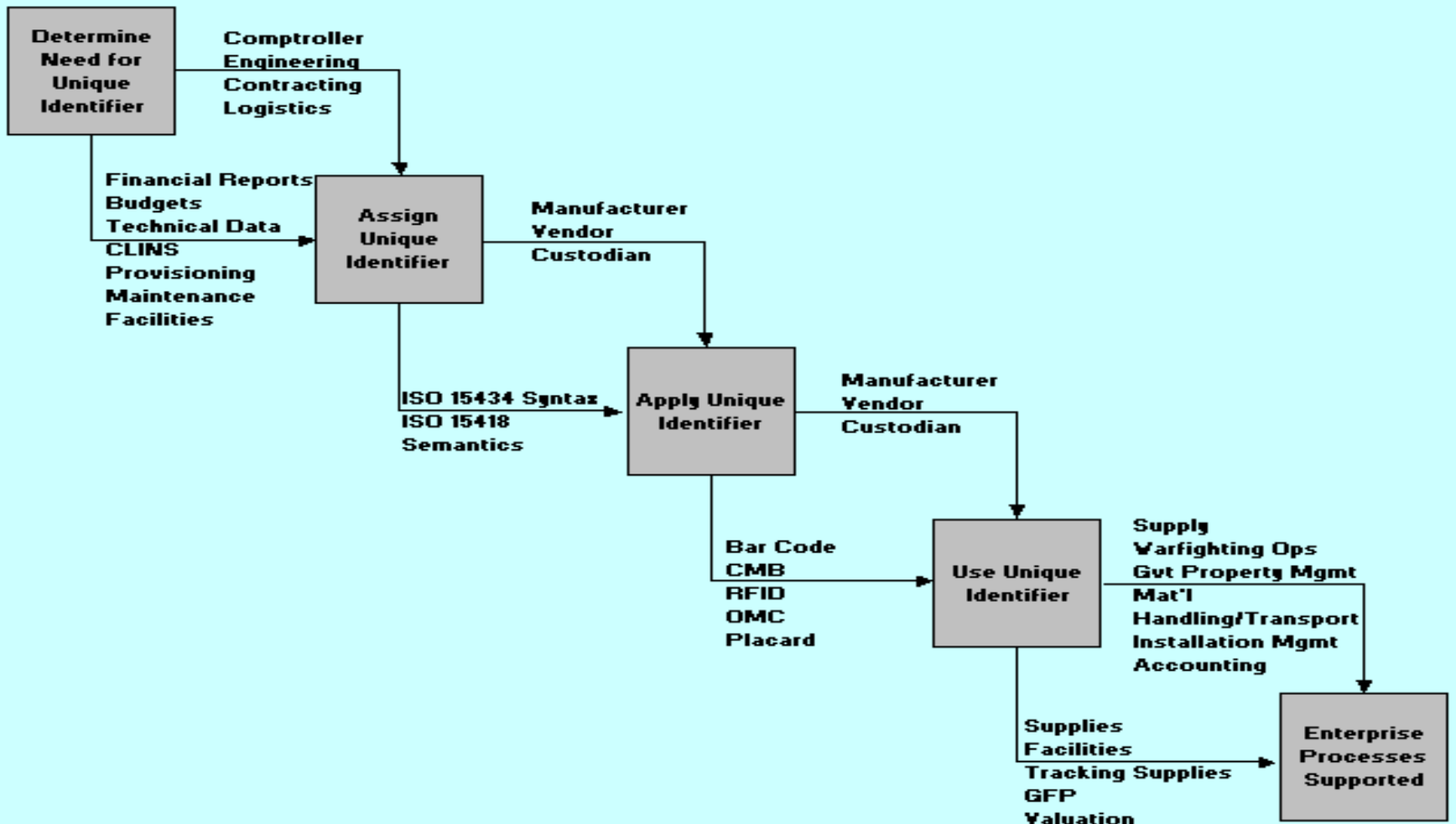


UID Interfaces





UID Interface Flow





UID Policy Overview

- ◆ Final UID policy released on July 29th established UID as a mandatory DoD requirement on all solicitations issued on or after January 1, 2004.
- ◆ UID is required for all property items delivered to the Government if:
 - Acquisition cost is more than \$5,000
 - Item is serially managed, mission essential, or controlled inventory piece of equipment or reparable; or a consumable item or material requiring permanent identification
 - Item is a component of a delivered item and PM requires UID
 - UID or DoD-recognized equivalent is available
- ◆ Wide Area Workflow (WAWF) will be modified to capture UID and WAWF will be a mandatory payment requirement no later than January 1, 2005.



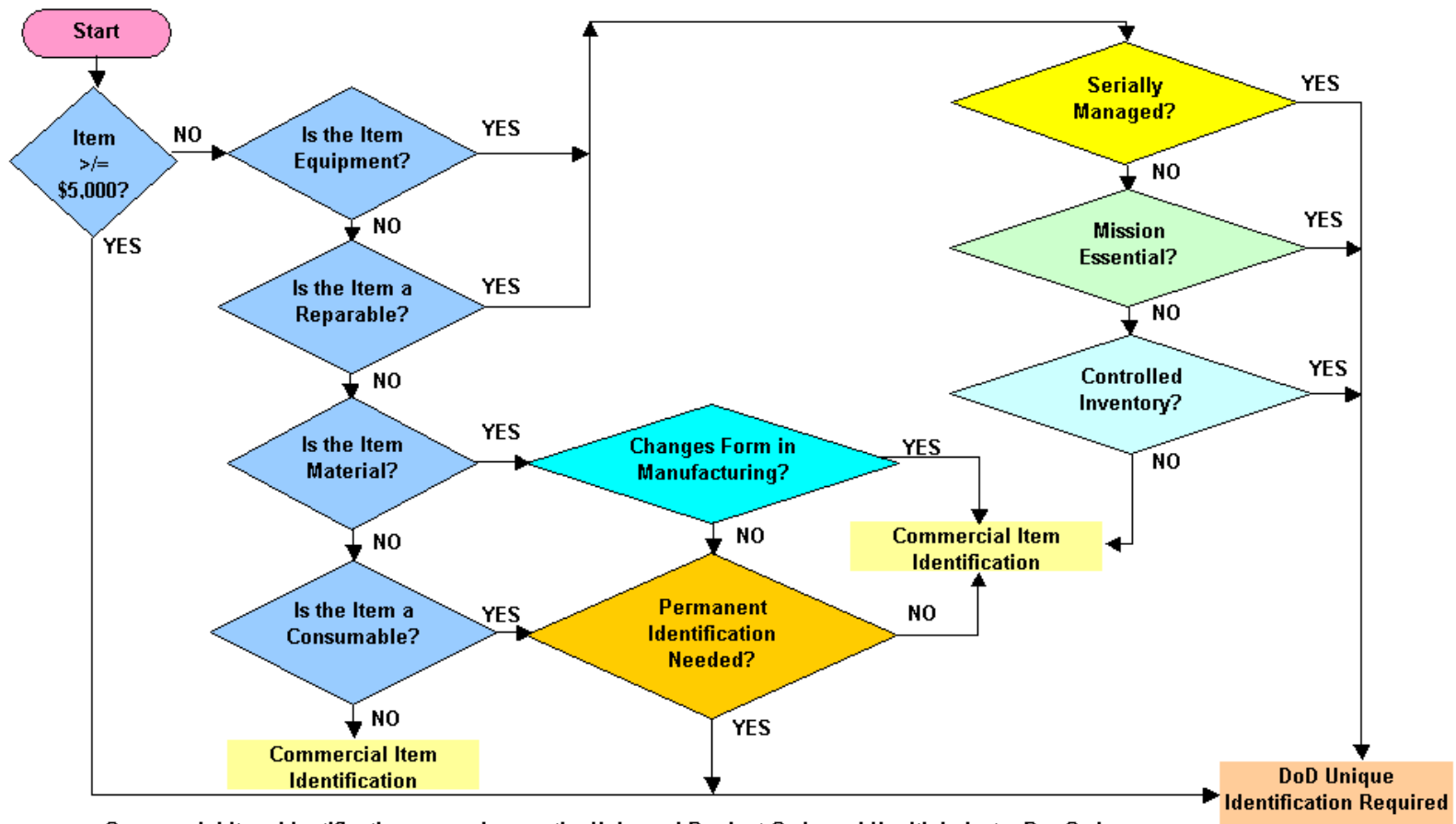
UID Policy Overview

- ◆ Approval of a new format code to ISO/IEC 15434 to allow Text Element Identifiers (TEIs) is required and being pursued.
- ◆ An interim DFARS rule for capturing the acquisition cost of tangible items and placing UID on them at acquisition was published on October 10, 2003.
- ◆ A DoD UID Program Management Office will be established to manage UID implementation.
- ◆ Specific guidance related to UID requirements can be found by referring to the following sources:
 - DFARS dated 10 October 2003
 - DoD Guide to Uniquely Identifying Items
 - www.acq.osd.mil/uid



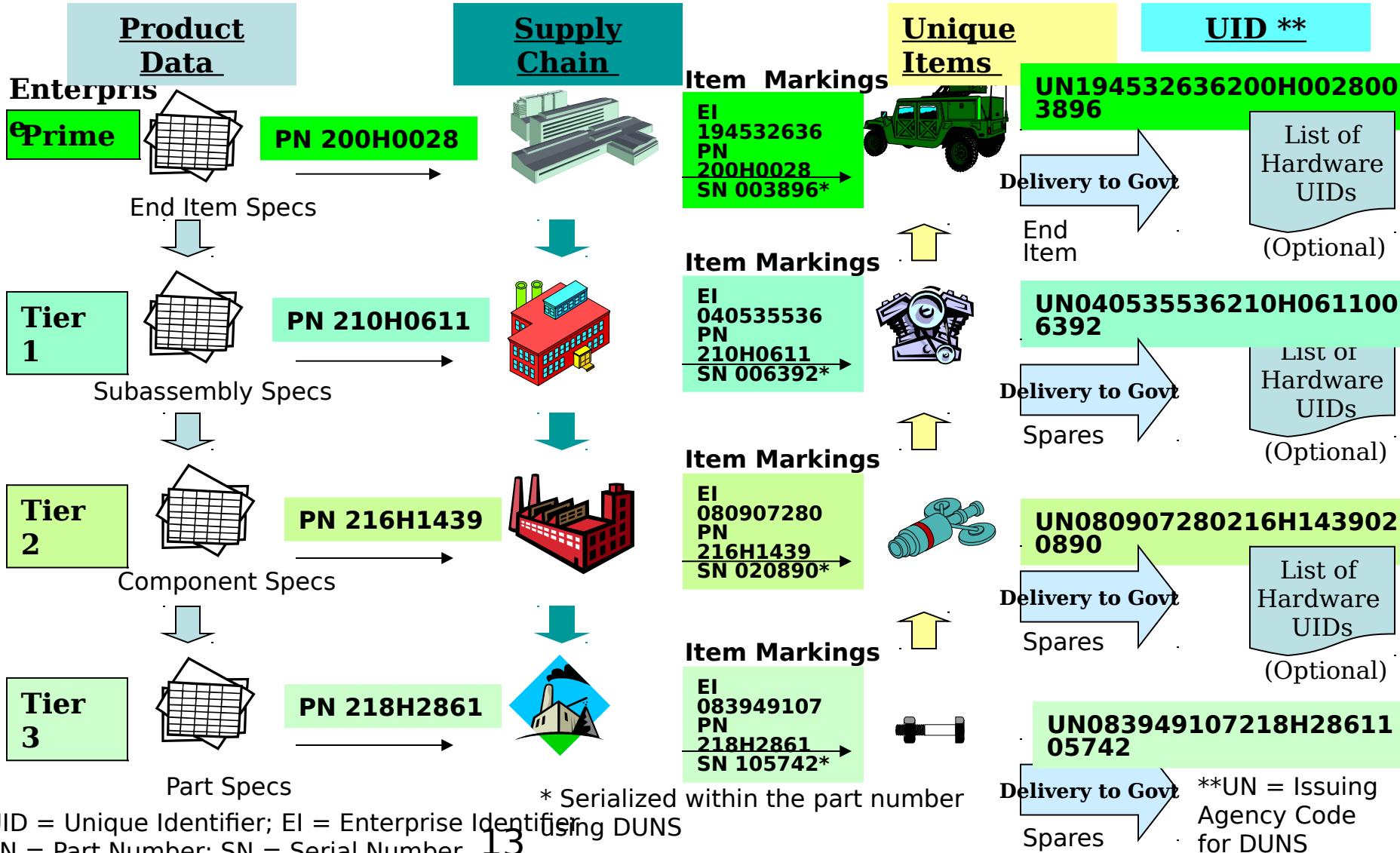
Require the UID

Which Items Require a Unique Identifier





UID in the Supply Chain



* Serialized within the part number

**UN = Issuing Agency Code for DUNS



UID/ Logistics Outcomes

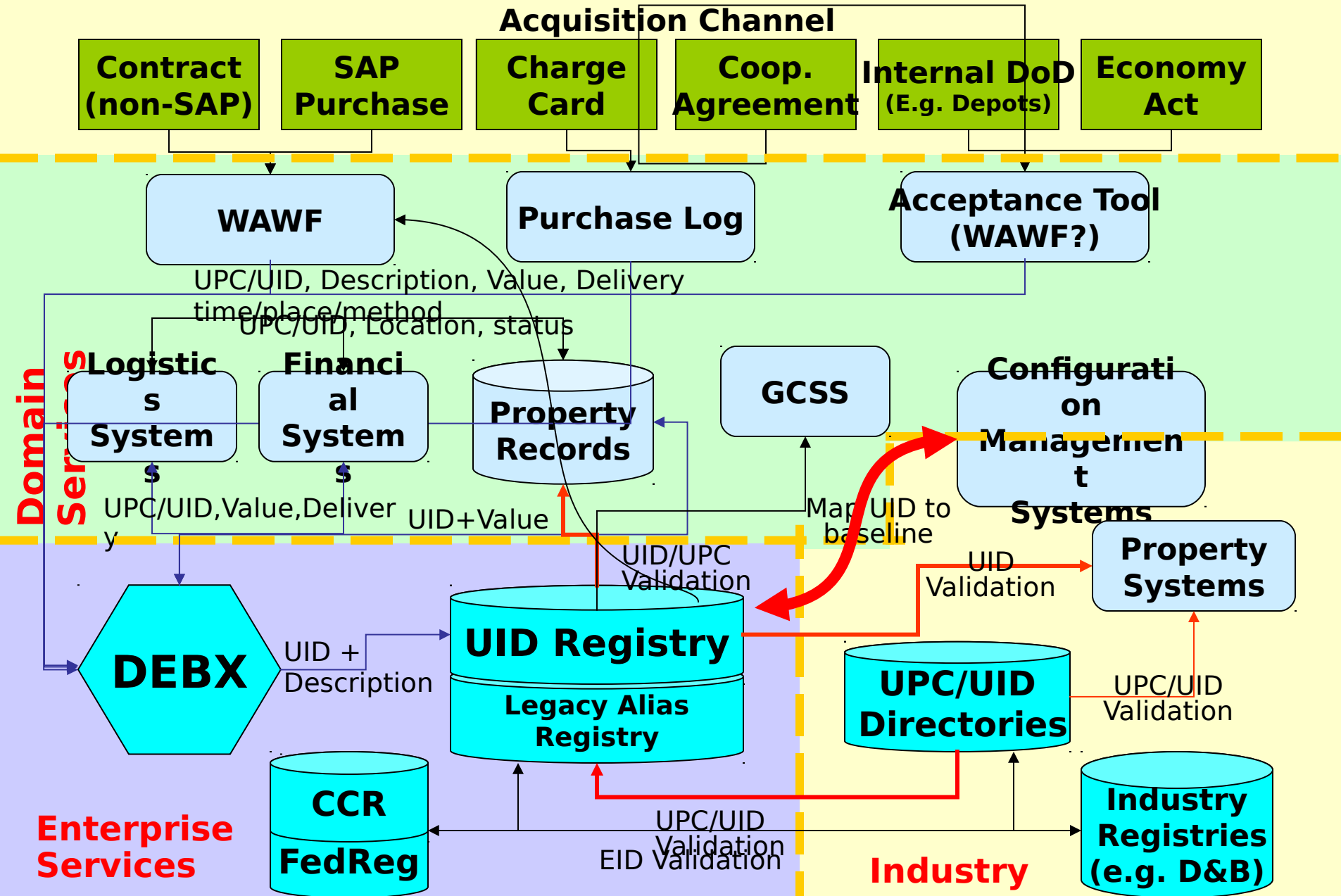
- ◆ Comprehensive, timely data about each uniquely identified item throughout the supply chain
 - Generation, collection and analysis of maintenance data
 - End-to-end tracking and traceability of unique items
 - Reliability and maintainability information on each item throughout its life cycle
- ◆ Improved supply chain efficiency
 - Administrative cost reduction
 - Reduced stock levels
 - Simplicity, standardization, speed and certainty in automated data capture and electronic information exchange
- ◆ Integrated transportation and movement of individually identified items
- ◆ Leveraged commercial technologies and practices



UID Data Capture

- ◆ UID Capture
 - WAWF
 - Fixed price
 - Third party shipping
 - Cost type
 - Other collection scenarios
 - Reporting of embedded UIDs
 - Charge Card
 - Non-contractual acquisition
 - Internal DoD (Depot) marking
 - Other government agency marking
- ◆ UID Data Retrieval
 - DoD Registry development
 - Registry access rules
 - Use of third party UID-equivalent registries

UID Data Capture and Reuse





UID Data Capture Schedule

UID Data Capture	1FY04	2FY04	3FY04	4FY04	1FY05	2FY05	3FY05	4FY05	1FY06	2FY06	3FY06	4FY06
UID Capture												
WAWF	[Grey bar from 1FY04 to 2FY06]											
UID Capture	[Grey bar from 1FY04 to 4FY04]											
Fixed price	[Blue arrow from 1FY04 to 3FY04]											
Cost type	[Blue arrow from 2FY04 to 4FY04]											
Third party shipping	[Blue arrow from 2FY04 to 4FY04]											
Supporting Capabilities	[Grey bar from 2FY04 to 2FY06]											
Web Based Training	[Grey bar from 2FY04 to 2FY06]											
Other collection scenarios	[Grey bar from 2FY04 to 4FY06]											
Reporting of component UIDs	[Blue arrow from 2FY04 to 2FY05]											
Charge Card	[Blue arrow from 3FY04 to 3FY05]											
Internal DoD (Depot) marking	[Blue arrow from 1FY05 to 4FY05]											
Non-contractual acquisition	[Blue arrow from 2FY05 to 2FY06]											
Other government agency marking	[Blue arrow from 3FY05 to 4FY06]											
UID Data Retrieval	[Grey bar from 1FY04 to 2FY05]											
DoD Registry database development	[Blue arrow from 1FY04 to 2FY04]											
Registry access rules	[Grey bar from 1FY04 to 4FY04]											
Web Access	[Blue arrow from 1FY04 to 3FY04]											
System to System	[Blue arrow from 2FY04 to 4FY04]											
Use of third party UID-equivalent registries	[Blue arrow from 2FY04 to 2FY05]											



UID “Pedigree” Data

End Item Data (15)

- ◆ UID (Concatenated)
- ◆ Descriptive Data
 - UID Components (5)
 - Item Description
 - Unit of measure
- ◆ Acquisition Data
 - Contractor
 - Contract Number
 - CLIN/SLIN/ELIN
 - Price
 - Acceptance Code (identifies acceptor)
 - Acceptance Date
 - Ship to code

Embedded Items of End Items (10)

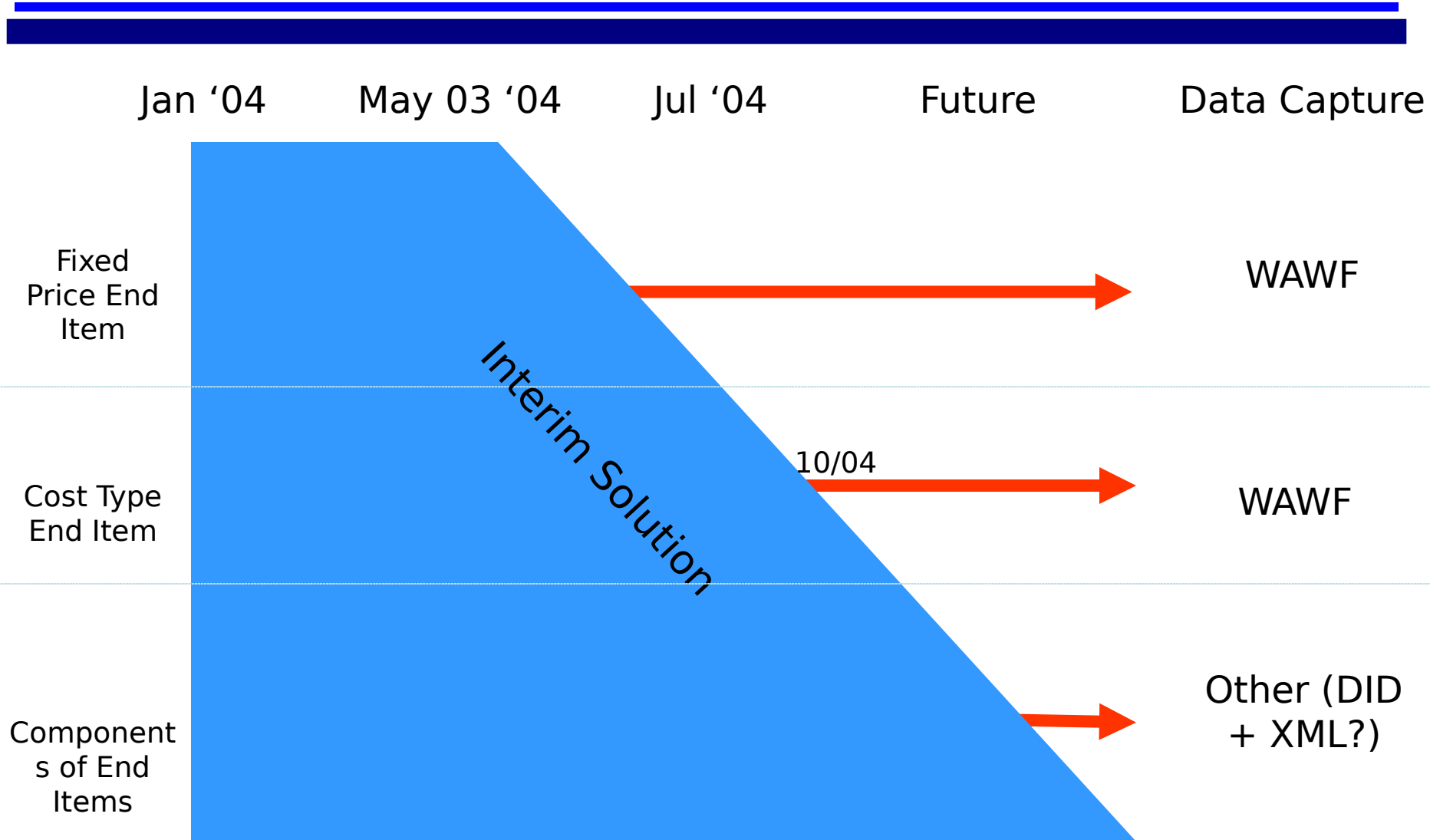
- ◆ UID (Concatenated)
- ◆ Descriptive Data
 - UID Data Elements (5)
 - Item Description
 - Unit of measure
- ◆ Parent UID as of delivery date
- ◆ GFP flag

Item Tracking (TBD)

- ◆ Current parent
- ◆ “As of” date



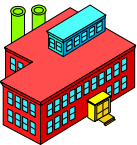
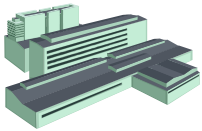
Interim UID Timeline





Valuation of UID CLINs

Supply Chain



Items Qualifying for UID

Item Markings

EI
194532636
PN
200H0028
SN 003896*



Delivery to Govt
End Item



Item Markings

EI
040535536
PN
210H0611
SN 006392*

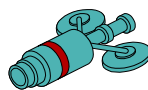


Delivery to Govt
Spares



Item Markings

EI
080907280
PN
216H1439
SN 020890*



Delivery to Govt
Spares



Item Markings

EI
083949107
PN
218H2861
SN 105742*



Delivery to Govt
Spares

UID ** Deliverables

UN194532636200H002800
3896
CLIN Valuation

UN040535536210H061100
~~0692~~ Valuation if
delivered separately

UN080907280216H143902
~~0890~~ Valuation if
delivered separately

UN083949107218H28611
~~0892~~ Valuation if
delivered separately

UID = Unique Identifier; EI = Enterprise Identifier Serialized within the part number
PN = Part Number; SN = Serial Number using DUNS

**UN = Issuing Agency Code for DUNS



Key DoD & External UID Stakeholders

DoD Stakeholders

- OSD
- All Services
- Joint Staff
- Defense Contract Management Agency
- Defense Logistics Information Service
- UK MoD

UID background materials and actions items are available
www.acq.osd.mil/uid

Industry Stakeholders

- Aerospace Industries Association (AIA)
- Government Electronics Association (GEIA)
- Uniform Code Council (UCC)
- Air Transport Association (ATA)
- Various AIT suppliers
- New York City Transit Authority
- UK Council for Electronic Business



UID Joint Requirements Implementation Board (JRIB)

USD (AT&L)

Joint Requirements Implementation Board-UID

Lead: LeAntha Sumpter (Acquisition)

Co-chairs: Trish Vanbelle (Finance)

Alan Estevez (Logistics)

Senior Executive Council Advisor: Brad Berkson

AIT Senior Steering Group

CFO Rules Group

BEA Domain Owners/PM

Integrated Acquisition Environment

UID/PC JPMO

ISO Standards Working Group

DFARS Working Group

Business Rules Integration Group

UID/Systems Engineering Working Group

AIS Technical Interface Working Group

Enterprise Working Group

TBD

Inspection & Acceptance Working Group

UID/RFID Working Group

UID/PBL Working Group

TBD

UID/Maintenance Working Group

TBD

Grants, OT Working Group

TBD

UID/Export Controls Working Group

TBD

JRB WAWF

UID Registry



UID Policy Implementation Timeline

Policy

- ◆ Final UID policy (Implementation effective Jan 2004) - July 2003
- ◆ RFID policy - October 2003
- ◆ UID Implementation for Contracts with Govt Furnished Property - Jan 2005

DFAR Cases

- ◆ Advanced Notice of Public Rulemaking released - May 2003
- ◆ Public Hearing - May 2003
- ◆ DFARS Rule Published in Federal Register - 10 Oct 2003
- ◆ Comments Due on DFARS Rule - 10 Nov 2003

ISO 15434 Change Request

- ◆ Finalize "New Work Item Proposal" - January 2004
- ◆ Gather change request support - ongoing
- ◆ ISO 15434 amendment issued - Jun 2005

WAWF Modifications

- ◆ UID Capability IOC - April 2004